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CTCAGCTGTGAGCATGCGGCACTGACCAGCTTCCCAGCTTGCTATAATCAAGTGAAGGTTCAGATGGATCAGTTTATGCAGCAGCTCCAG 1890
L S C E H A A L T S C P A C Y N Q V K V Q M D Q F M Q Q L Q 630
               →Dom. I/II
ATCCTGGAGGCCCTGATTTCGAAGGCTCAGGGTGGAGCAGTACCCAACGCAGAGCTGGAAGGCAGGATGCAGCAGGCCCCTT 1980
ILEALISKA QGGAVPNAELEGRM QQAEQAL 660
CGGGACATTCTGAGAGAAGCCCAGATTTCACAAGATGCTGTTAGATCCTTCAATCTCCGGGTGGCCAAGGCAAGGACTCAAGAGAATAGC 2070
R D I L R E A Q I S Q D A V R S F N L R V A K A R T Q E N S
Y R D R L D D L K M T V E R V R A L G S Q Y Q N Q V Q D T R
AGGCTCATCACTCAGATGCGCCTGAGCCTGGAGGAAAGTGAGGCTTCCCTGCAAAACACCAACATTCCTCCTTCAGAGCACTACGTGGGG 2250
R L I T Q M R L S L E E S E A S L Q N T N I P P S E H Y V G 750
PNGFKSLAQEATRLADSHVQSASNMEQLAK 780
E T O E Y S K E L M S L V R E A L O E G G G S G S L D G A V
V Q R L V G K L Q K T K S L A Q E L S R E A T Q T D M E A D 840
AGGTCTTATCAGCATAGTCTCCACCTTCTCAATTCCGTGTCTCAGATTCAGGGAGTCAATGATCAGTCCTTGCAGGTAGAAGCGAAGAGG 2610
R S Y Q H S L H L L N S V S Q I Q G V N D Q S L Q V E A K R
CTCAGACAAAAAGCTGATTCTCTCTCAAACCGTGTGACTAAGCATATGGATGAGTTCAAGCACGTGCAAAGCAATCTGGGAAACTGGGAA 2700
L R Q K A D S L S N R V T K H M D E F K H V Q S N L G N W E
E E T R Q L L Q N G K N G R Q T S D Q L L S R A N L A K S R 930
GCCCAAGAAGCACTAAGTATGGGCAATGCCACTTTTTATGAAGTTGAGAACATCTTAAAGAATCTCAGAGAGTTTGACCTGCAGGTTGGA 2880
A Q E A L S M G N A T F Y E V E N I L K N L R E F D L Q V G
D K R A E A E E A M K R L S Y I S Q K V A G A S D K T K Q A
GAAGCAGCCCTGGGCAGTGCTGCCGACGCCCAGAGGGCAAAGAATGCAGCCAGGGAGGCCCTGGAGATCTCTGGCAAGATAGAACAG 3060
EAALGSAAADAQRAKNAAREALEISGKIEQ 1020
GAGATAGGAGGTCTGAACTTGGAAGCCAATGTGACAGCAGATGGAGCCTTGGCCATGGAGAAGGGACTGGCCACTCTGAAAAGTGAGATG 3150
EIGGLNLEA<u>N V T</u>ADGALAMEKGLATLKSEM 1050
AGAGAAGTGGAAGGAGGCTGTCAAGGAAGGAGCAGGAGTTTGACATGGATATGGACGCAGTGCAGATGGTAATTGCAGAGGCCCAAAGA 3240
R E V E G E L S R K E Q E F D M D M D A V Q M V I A E A Q R
{\tt GTTGAAAACAGAGCCAAGAATGCTGGAGTTACGATCCAAGACACACTCAACACTTGGATGGCATCCTACACCTAATAGACCAGCCTGGC \ 3330
V E N R A K N A G V T I Q D T L N T L D G I L H L I D Q P G 1110
S V D E E R L I L E Q K L F R A K T Q I N S Q L R P L M S 1140
GAGCTGGAAGAGGGCACATCGGCAGAAGGGCCACCTCCGTTTCCTGGAGACTAGCATAGATGGGATTCTGGCTGATGTGAAGAACCTG 3510
E L E E R A H R Q K G H L R F L E T S I D G I L A D V K N L 1170
GAGAACATCAGGGACAACCTGCCCCCGGGCTGCTACAATACCCAGGCTCTTGAGCAACAGtgaagctgccttagagatttctcaaccaag 3600
ENIRDNLPPGCYNTQALEQQ*
gttcttgggattcagacctagctgccttagagatttctcaaccaaggttcttgggattcagacctcagggctcaggagcccgcatgcggg 3690
tggggtgggatgggaatatttgaatatgttgaatgcgtgtgctcaggccccagtgaacctgatcccatccctgagacctcggccagataa 3780
atgtctttattg
                                                         3789-31
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horse man mouse		MPALWLSCYLCFSLLLPAARATSGREVCDCNGKSRQCIFDQELHKQTGNGFRCLNCNDNTDGIHCERCKAGFYRQRERDRCLPCNCNSKGSLSARCDNSG MPALWLGCCLCFSLLLPAARATSRREVCDCNGKSRQCIFDRELHRQTGNGFRCLNCNDNTDGIHCEKCKNGFYRHRERDRCLPCNCNSKGSLSARCDNSG MPALWLSCCLGVALLLPASQATSRREVCDCNGKSRQCVFDQELHRQAGSGFRCLNCNDNTAGVHCERSREGFYQHQSKSRCLPCNCHSKGSLSAGCDNSG
horse man mouse	<u>0</u> <u>0</u> <u>0</u>	RCSCKPGVTGDRCDRCLPGFHTLTDAGCAQDQRLLDSKCDCDPAGISGPCDSGRCVCKPAVTGERCDRCRPGYYHLDGGNPQGCTQCFCYGHSASCHSSG RCSCKPGVTGARCDRCLPGFHMLTDAGCTQDQRLLDSKCDCDPAGIAGPCDAGRCVCKPAVTGERCDRCRSGYYNLDGGNPEGCTQCFCYGHSASCRSSA QCRCKPGVTGQRCDQCQPGFHMLTDAGCTRDQGQLDSKCDCDPAGISGPCDSGRCVCKPAVTGERCDRCRPRDYHLDRANPEGCTQCFCYGHSASCHASA
horse	201	DYSVHKIISAFHQDVDGWKAVQRNGSPAKLQWSQRHRDIFSSARRSDPVYFVAPAKFLGNQQVSYGQSLSFDYRVDRGGRHPSAHDVILEGAGLRITAPL
man	201	EYSVHKITSTFHQDVDGWKAVQRNGSPAKLQWSQRHQDVFSSAQRLDPVYFVAPAKFLGNQQVSYGQSLSFDYRVDRGGRHPSAHDVILEGAGLRITAPL
mouse	201	DFSVHKITSTFSQDVDGWKAVQRNGAPAKLHWSQRHRDVFSSARRSDPVYFVAPAKFLGNQQVSYGQSLSFDYRVDRGGRQPSAYDVILEGAGLQIRAPL
horse	301	MPLSKTLPCGITKTYTFRLNEHPSSNWSPQLSYFEYRRLLRNLTALR-IRATYGEYSTGYIDNVTLISARPVSGAPAPWVEQCVCPVGYKGQFCQDCASG
man	301	MPLGKTLPCGLTKTYTFRLNEHPSNNWSPQLSYFEYRRLLRNLTALR-IRATYGEYSTGYIDNVTLISARPVSGAPAPWVEQCICPVGYKGQFCQDCASG
mouse	301	MAPGKTLPCGITKTYTFRLNEHPSSHWSPQLSYFEYRRLLRNLTALLMIRATYGEYSTGYIDNVTLVSARPVLGAPAPWVERCVCLLGYKGQFCQECASG
horse man mouse	400 400 401	YKRDSARLGPFGTCIPCNCQGGGACDPDTGDCYSGDENPDIPECADCPIGFYNDPQDPRSCKPCPCRNGFSCSVMPETEEVVCNNCPQGVTGARCELCAD YKRDSARLGPFGTCIPCNCQGGGACDPDTGDCYSGDENPDI-ECADCPIGFYNDPHDPRSCKPCPCHNGFSCSVMPETEEVVCNNCPPGVTGARCELCAD YKRDSARLGAFGACVPCNCQGGGACDPDTGDCYSGDENPDI-ECADCPIGFYNDPHDPRSCKPCPCHNGFSCSVMPETEEVVCNNCPPGVTGARCELCAD
horse	500	GYFGDPFGERGPVRPCQPCQCNNNVDPSASGNCDRLTGRCLKCIHNTAGVHCDQCKAGYYGDPLAPNPADKCRACNCNPVGSEPVECRSDGSCVCKPGFG
man	499	GYFGDPFGEHGPVRPCQPCQCNNNVDPSASGNCDRLTGRCLKCIHNTAGIYCDQCKAGYFGDPLAPNPADKCRACNCNPMGSEPVGCRSDGTCVCKPGFG
mouse	500	GFFGDPFGEHGPVRPCQRCQCNNNVDPNASGNCDQLTGRCLKCIYNTAGVYCDQCKAGYFGDPLAPNPADKCRACNCSPMGAEPGECRGDGSCVCKPGFG
horse	600	GLSCEHAALTSCPACYNQVKVQMDQFMQQLQILEALISKAQGGAVPNAELEGRMQQAEQALRDILREAQISQDAVRSFNLRVAKARTQENSYRDRLD
man	600	GPNCEHGAFS-CPACYNQVKIQMDQFMQQLQRMEALISKAQGGDG-VVPDTELEGRMQQAEQALQDILRDAQISEGASRSLGLQLAKVRSQENSYQSRLD
mouse	600	AFNCDHAALTSCPACYNQVKIQMDQFTQQLQSLEALVSKAQGGGGGTVPVQLEGRIEQAEQALQDILGEAQISEGAMRAVAVRLAKARSQENDYKTRLD
horse	697	DLKMTVERVRALGSQYQNQVQDTRRLITQMRLSLEESEASLQNTNIPPSEHYVGPNGFKSLAQEATRLADSHVQSASNMEQLAKETQEYSKELMSLVREA
man	697	DLKMTVERVRALGSQYQNRVRDTHRLITQMQLSLAESEASLGNTNIPASDHYVGPNGFKSLAQEATRLAESHVESASNMEQLTRETEDYSKQALSLVRKA
mouse	700	DLKMTAERIRALGSQHQNRVQDTSRLISQMRLSLAGSEALLENTNIHSSEHYVGPNDFKSLAQEATRKADSHAESANAMKQLARETEDYSKQALSLARKL
horse	797	LQE—GGGSGSLDGAVVQRLVGKLQKTKSLAQELSREATQTDMEADRSYQHSLHLLNSVSQIQGVNDQSLQVEAKR-LRQKADSLSNRVTKHMDEFKHVQ
man	797	LHEGVGSGSGSPDGAVVQGLVEKLEKTKSLAQQLTREATQAEIEADRSYQHSLRLLDSVSRLQGVSDQSFQVEEAKRIKQKADSLSTLVTRHMDEFKRTQ
mouse	800	LSG—GGGSGSWDSSVVQGLMGKLEKTKSLSQQLSLEGTQADIEADRSYQHSLRLDSASQLQGVSDLSFQVEAKR-IRQKADSLSNLVTRQTDAFTRVR
horse	894	SNLGNWEEETRQLLQNGKNGRQTSDQLLSRANLAKSRAQEALSMGNATFYEVENILKNLREFDLQVGDKRAEAEEAMKRLSYISQKVAGASDKTKQAEAA
man	897	KNLGNWKEEAQQLLQNGKSGREKSDQLLSRANLAKSRAQEALSMGNATFYEVESILKNLREFDLQVDNRKAEAEEAMKRLSYISQKVSDASDKTQQAERA
mouse	897	NNLGNWEKETRQLLQTGKDRRQTSDQLLSRANLAKNRAQEALSMGNATFYEVENILKNLREFDLQVEDRKAEAEEEAMKRLSSISQKVADASDKTQQAETA
horse man mouse	994 997	LGSAAADAQRAKNAAREALEISGKIEQEIGGLNLEANVTADGALAMEKGLATLKSEMREVEGELSRKEQEFDMDMDAVQMVIAEAQRVENRAKNAGVTIQ LGSAAADAQRAKNGAGEALEISSEIEQEIGSLNLEANVTADGALAMEKGLASLKSEMREVEGELERKELEFDTNMDAVQMVITEAQKVDTRAKNAGVTIQ LGSATADTQRAKNAAREALEISSEIELEIGSLNLEANVTADGALAMEKGTATLKSEMREMI-ELARKELEFDTDKDTVQLVITEAQQADARATSAGVTIQ
horse	1094	DTLNTLDGILHLIDQPGSVDEERLILLEQKLFRAKTQINSQLRPLMSELEERAHRQKGHLRFLETSIDGILADVKNLENIRDNLPPGCYNTQALEQQ
man	1097	DTLNTLDGLLHLMDQPLSVDEEGLVLLEQKLSRAKTQINSQLRPMMSELEERARQQRGHLHLLETSIDGILADVKNLENIRDNLPPGCYNTQALEQQ
mouse	1096	DTLNTLDGILHLIDQPGSVDEEGMMLLEQGLFQAKTQINSRLRPLMSDLEERVRRQRNHLHLLETSIDGILADVKNLENIRDNLPPGCYNTQALEQQ

5 'TGGGTCCTCCTTATTCACAGG -91 GAAGGCACAGCGGAGCGCAGAGTGAGAACTCCCAGCGGCGAGGCGCCGGGCAGCGCCTGCAGCGGGGGGGACCGCGCCGGCCTGGCC -1 MPALWLSCYLCFSLLLPAAARATSGREYCDC 30 Dom V NGKSRQCIFDQELHKQTGNGFRCLNCNDNT 60 GATGCCATCCACTGCGAGAGGTGCAAGGCAGGATTTTACCGACAGAGAGAAAGGGACCGCTGTTTACCCTGCAATTGTAACTCTAAAGGT 270 D G I H C E R C K A G F Y R Q R E R D R C L P C N C N S K G TCTCTTAGCGCTCGATGTGACAACTCTGGACGGTGCAGCTGTAAGCCAGGTGTGACAGGAGACAGGTGTGACCGATGTCTGCCCGGCTTC 360 S L S A R C D N S G R C S C K P G V T G D R C D R C L P G F 120 CACACACTCACTGATGCTGGGTGCGCCCAAGACCAAAGGCTGCTAGACTCCAAGTGTGACTGTGACCCAGCTGGCATCTCAGGGCCCTGT 450 H T L T D A G C A Q D Q R L L D S K C D C D P A G I S G P C 150 GACTCAGGCCGCTGTGTCTGCAAGCCGGCTGTCACTGGAGAGCGCTGTGATAGGTGTCGACCAGGTTACTATCACCTGGATGGGGGAAAC 540 D S G R C V C K P A V T G E R C D R C R P G Y Y H L D G G N CCTCAGGGCTGTACCCAGTGTTTTTGCTATGGGCATTCCGCCAGCTGCCACAGCTCTGGGGACTACAGTGTCCATAAAATCATCTCTGCC 630 PQGCTQCFCYGHSA|SCHSSGDYSVHKIISA 210 → dom. IV TTCCATCAAGATGTTGATGGCTGGAAGGCTGTCCAAAGAAACGGGTCTCCTGCAAAGCTCCAGTGGTCACAGCGCCATCGGGATATATTT 720 FHQDVDGWKAVQR<mark>NGS</mark>PAKLQWSQRHRDIF 240 AGCTCAGCACGACGATCAGACCCTGTCTATTTTGTAGCTCCTGCCAAATTTCTTGGGAATCAACAGGTGAGCTACGGGCAAAGCCTATCT 810 S S A R R S D P V Y F V A P A K F L G N Q Q V S Y G Q S L S 270 TTTGACTACCGTGTGGATAGGGGAGGCAGACACCCATCTGCCCATGACGTGATCCTGGAAGGTGCTGGTCTACGGATCACAGCTCCCTTG 900 F D Y R V D R G G R H P S A H D V I L E G A G L R I T A P L ${\tt ATGCCACTTAGCAAGACATCCAAGACTTACACATTCAGATTAAATGAACATCCAAGCAGTAATTGGAGCCCCCAG} ~~990$ MPLSKTLPCGITKTYTFRLNEHPSS<mark>NWS</mark>PQ 330 LSYFEYRRLLR<mark>NLT</mark>ALRIRATYGEYSTGYI 360 GACAACGTGACCTTGATTTCAGCCCGCCCCGTTTCTGGAGCCCCAGCGCCCTGGGTTGAACAATGTGTATGCCCTGTTGGCTACAAGGGG 1170 D N V T L I S A R P V S G A P A P W V E Q C V C P V G Y K G 390 Dom. III CAGTTCTGCCAGGATTGTGCTTCCGGCTACAAAAGAGATTCAGCCAGACTGGGACCTTTTGGCACCTGTATTCCATGTAACTGCCAAGGG 1260 Q F C Q D C A S G Y K R D S A R L G P F G T C I P C N C Q G 420 GGAGGGGCCTGCGATCCAGACACAGGAGACTGTTACTCAGGGGATGAGAACCCTGACATCCCTGAGTGTGCTGACTGCCCCATTGGTTTC 1350 G G A C D P D T G D C Y S G D E N P D I P E C A D C P I G F 450 TACAACGATCCACAAGACCCCCGCAGCTGCAAGCCGTGCCCCTGTCGCAATGGGTTCAGCTGCTGCTGATGCCTGAGACAGAGGAGGAGGTG 1440 Y N D P Q D P R S C K P C P C R N G F S C S V M P E T E E V 480 GTGTGCAATAACTGCCCCCAGGGTGTCACTGGTGCCCGCTGTGAGCTCTGTGCTGATGGCTATTTTGGGGACCCCTTCGGGGAACGTGGC 1530 V C N N C P O G V T G A R C E L C A D G Y F G D P F G E R G 510 PVRPCQPCQCNNNVDPSASGNCDRLTGRCL 540 AAGTGCATCCACAACACGCTGGGGTCCACTGTGACCAGTGCAAAGCAGGCTACTATTGGGGGACCCGTTGGCTCCCAATCCAGCAGACAAG 1710 K C I H N T A G V H C D Q C K A G Y Y G D P L A P N P A D K 570 TGTCGAGCTTGCAACCCAGTGGGCTCGGAGCCTGTGGAGTGTCGAAGTGATGGCAGCTGTTTGCAAGCCAGGCTTTGGTGGC 1800 $\texttt{C} \quad \texttt{R} \quad \texttt{A} \quad \texttt{C} \quad \texttt{N} \quad \texttt{C} \quad \texttt{N} \quad \texttt{P} \quad \texttt{V} \quad \texttt{G} \quad \texttt{S} \quad \texttt{E} \quad \texttt{P} \quad \texttt{V} \quad \texttt{E} \quad \texttt{C} \quad \texttt{R} \quad \texttt{S} \quad \texttt{D} \quad \texttt{G} \quad \texttt{S} \quad \texttt{C} \quad \texttt{V} \quad \texttt{C} \quad \texttt{K} \quad \texttt{P} \quad \texttt{G} \quad \texttt{F} \quad \texttt{G} \quad \texttt{G} \quad \texttt{600}$

CTCAGCTGTGAGCATGCGGCACTGACCAGCTGTCCAGCTTGCTATAATCAAGTGAAGGTTCAGATGGATCAGTTTATGCAGCAGCTCCAG 1890 L S C E H A A L T S C P A C Y N Q V K V Q M D Q F M Q Q L Q 630 →Dom. I/II ATCCTGGAGGCCCTGATTTCGAAGGCTCAGGGTGGAGCAGTACCCAACGCAGAGCTGGAAGGCAGGATGCAGCAGGCTGAGCAGGCCCTT 1980 ILEALISKAQGGAVPNAELEGRMQQAEQAL 660 CGGGACATTCTGAGAGAAGCCCAGATTTCACAAGATGCTGTTAGATCCTTCAATCTCCGGGTGGCCAAGGACAAGGACTCAAGAGAATAGC 2070 R D I L R E A Q I S Q D A V R S F N L R V A K A R T Q E N S Y R D R L D D L K M T V E R V R A L G S Q Y Q N Q V Q D T R AGGCTCATCACTCAGATGCGCCTGGAGGAAAGTGAGGCTTCCCTGCAAAACACCCAACATTCCTCCTTCAGAGCACTACGTGGGG 2250 R L I T Q M R L S L E E S E A S L Q N T N I P P S E H Y V G P N G F K S L A Q E A T R L A D S H V Q S A S N M E Q L A K E T O E Y S K E L M S L V R E A L Q E G G G S G S L D G A V V Q R L V G K L Q K T K S L A Q E L S R E A T Q T D M E A D AGGTCTTATCAGCATAGTCTCCACCTTCTCAATTCCGTGTCTCAGATTCAGGGAGTCAATGATCAGTCCTTGCAGGTAGAAGCGAAGAGG 2610 R S Y Q H S L H L L N S V S Q I Q G V N D Q S L Q V E A K R CTCAGACAAAAAGCTGATTCTCTCTCAAACCGTGTGACTAAGCATATGGATGAGTTCAAGCACGTGCAAAGCAATCTGGGAAACTGGGAA 2700 L R O K A D S L S N R V T K H M D E F K H V Q S N L G N W E GAAGAAACCCGGCAGCTCTTACAGAATGGAAAGAATGGGAGACAGCATCAGATCAGCTGCTTTCCCGTGCCAACCTTGCTAAAAGCAGA 2790 EETRQLLQNGKNGRQTSDQLLSRANLAKSR 930 GCCCAAGAAGCACTAAGTATGGGCAATGCCACTTTTTATGAAGTTGAGAACATCTTAAAGAATCTCAGAGAGTTTGACCTGCAGGTTGGA 2880 A Q E A L S M G N A T F Y E V E N I L K N L R E F D L Q V G D K R A E A E E A M K R L S Y I S Q K V A G A S D K T K Q A GAAGCAGCCCTGGGCAGTGCTGCTGCCGACGCCCAGAGGGCAAAGAATGCAGCCAGGGAGGCCCTGGAGATCTCTGGCAAGATAGAACAG 3060 E A A L G S A A A D A Q R A K N A A R E A L E I S G K I E Q GAGATAGGAGGTCTGAACTTGGAAGCCAATGTGACAGCAGATGGAGCCTTGGCCATGGAGAAGGGACTGGCCACTCTGAAAAGTGAGATG 3150 EIGGLNLEA<u>N V T</u>ADGALAMEKGLATLKSEM 1050 AGAGAAGTGGAAGGAGGAGCTGTCAAGGAAGGAGCAGGAGTTTGACATGGATATGGACGCAGTGCAGATGGTAATTGCAGAGGCCCAAAGA 3240 R E V E G E L S R K E Q E F D M D M D A V Q M V I A E A Q R GTTGAAAACAGAGCCAAGAATGCTGGAGTTACGATCCAAGACACTCAACACTTGGATGGCATCCTACACCTAATAGACCAGCCTGGC 3330 VENRAKNAGVTIQDTLNTLDGILHLIDQPG 1110 S V D E E R L I L L E Q K L F R A K T Q I N S Q L R P L M S 1140 GAGCTGGAAGAGGGCCACATCGGCAGAAGGGCCACCTCCGTTTCCTGGAGACTAGCATAGATGGGATTCTGGCTGATGTAAAGAACCTG 3510 E L E E R A H R Q K G H L R F L E T S I D G I L A D V K N L ${\tt GAGAACATCAGGGACAACCTGCCCCCGGGCTGCTACAATACCCAGGCTCTTGAGCAACAGtgaagctgccttagagatttctcaaccaag} \ \ 3600$ ENIRDNLPPGCYNTQALEQQ* gttcttgggattcagacctagctgccttagagatttctcaaccaaggttcttgggattcagacctcagggctcaggagcccgcatgcggg 3690 tggggtgggatgggaatatttgaatatgttgaatgcgtgtgctcaggccccagtgaacctgatcccatccctgagacctcggccagataa 3780 atgtctttattg 3789-39

horse man mouse		MPALWLSCYLCFSLLLPAARATSGREVCDCNGKSRQCIFDQELHKQTGNGFRCLNCNDNTDGIHCERCKAGFYRQRERDRCLPCNCNSKGSLSARCDNSG MPALWLGCCLCFSLLLPAARATSRREVCDCNGKSRQCIFDRELHRQTGNGFRCLNCNDNTDGIHCEKCKNGFYRHRERDRCLPCNCNSKGSLSARCDNSG MPALWLSCCLGVALLLPASQATSRREVCDCNGKSRQCVFDQELHRQAGSGFRCLNCNDNTAGVHCERSREGFYQHQSKSRCLPCNCHSKGSLSAGCDNSG
horse man mouse	<u> </u>	RCSCKPGVTGDRCDRCLPGFHTLTDAGCAQDQRLLDSKCDCDPAGISGPCDSGRCVCKPAVTGERCDRCRPGYYHLDGGNPQGCTQCFCYGHSASCHSSG RCSCKPGVTGARCDRCLPGFHMLTDAGCTQDQRLLDSKCDCDPAGIAGPCDAGRCVCKPAVTGERCDRCRSGYYNLDGGNPEGCTQCFCYGHSASCRSSA QCRCKPGVTGQRCDQCQPGFHMLTDAGCTRDQGQLDSKCDCDPAGISGPCDSGRCVCKPAVTGERCDRCRPRDYHLDRANPEGCTQCFCYGHSASCHASA
horse	201	DYSVHKIISAFHQDVDGWKAVQRNGSPAKLQWSQRHRDIFSSARRSDPVYFVAPAKFLGNQQVSYGQSLSFDYRVDRGGRHPSAHDVILEGAGLRITAPL
man	201	EYSVHKITSTFHQDVDGWKAVQRNGSPAKLQWSQRHQDVFSSAQRLDPVYFVAPAKFLGNQQVSYGQSLSFDYRVDRGGRHPSAHDVILEGAGLRITAPL
mouse	201	DFSVHKITSTFSQDVDGWKAVQRNGAPAKLHWSQRHRDVFSSARRSDPVYFVAPAKFLGNQQVSYGQSLSFDYRVDRGGRQPSAYDVILEGAGLQIRAPL
horse man mouse	301	MPLSKTLPCGITKTYTFRLNEHPSSNWSPQLSYFEYRRLLRNLTALR-IRATYGEYSTGYIDNVTLISARPVSGAPAPWVEQCVCPVGYKGQFCQDCASG MPLGKTLPCGLTKTYTFRLNEHPSNNWSPQLSYFEYRRLLRNLTALR-IRATYGEYSTGYIDNVTLISARPVSGAPAPWVEQCICPVGYKGQFCQDCASG MAPGKTLPCGITKTYTFRLNEHPSSHWSPQLSYFEYRRLLRNLTALLMIRATYGEYSTGYIDNVTLVSARPVLGAPAPWVERCVCLLGYKGQFCQECASG
horse man mouse	400 401	YKRDSARLGPFGTCIPCNCQGGGACDPDTGDCYSGDENPDIPECADCPIGFYNDPQDPRSCKPCPCRNGFSCSVMPETEEVVCNNCPQGVTGARCELCAD YKRDSARLGPFGTCIPCNCQGGGACDPDTGDCYSGDENPDI-ECADCPIGFYNDPHDPRSCKPCPCHNGFSCSVMPETEEVVCNNCPPGVTGARCELCAD YKRDSARLGAFGACVPCNCQGEGACDPDTGDCYSGDENPDI-ECADCPIGFYNDPHDPRSCKPCPCHNGFSCSVMPETEEVVCNNCPPGVTGARCELCAD
horse	500	GYFGDPFGERGPVRPCQPCQCNNNVDPSASGNCDRLTGRCLKCIHNTAGVHCDQCKAGYYGDPLAPNPADKCRACNCNPVGSEPVECRSDGSCVCKPGFG
man	499	GYFGDPFGEHGPVRPCQPCQCNNNVDPSASGNCDRLTGRCLKCIHNTAGIYCDQCKAGYFGDPLAPNPADKCRACNCNPMGSEPVGCRSDGTCVCKPGFG
mouse	500	GFFGDPFGEHGPVRPCQRCQCNNNVDPNASGNCDQLTGRCLKCIYNTAGVYCDQCKAGYFGDPLAPNPADKCRACNCSPMGAEPGECRGDGSCVCKPGFG
horse man mouse	600 600	GLSCEHAALTSCPACYNQVKVQMDQFMQQLQILEALISKAQGGAVPNAELEGRMQQAEQALRDILREAQISQDAVRSFNLRVAKARTQENSYRDRLD GPNCEHGAFS-CPACYNQVKIQMDQFMQQLQRMEALISKAQGGDG-VVPDTELEGRMQQAEQALQDILRDAQISEGASRSLGLQLAKVRSQENSYQSRLD AFNCDHAALTSCPACYNQVKIQMDQFTQQLQSLEALVSKAQGGGGGGTVPVQLEGRIEQAEQALQDILGEAQISEGAMRAVAVRLAKARSQENDYKTRLD
horse	697	DLKMTVERVRALGSQYQNQVQDTRRLITQMRLSLEESEASLQNTNIPPSEHYVGPNGFKSLAQEATRLADSHVQSASNMEQLAKETQEYSKELMSLVREA
man	697	DLKMTVERVRALGSQYQNRVRDTHRLITQMQLSLAESEASLGNTNIPASDHYVGPNGFKSLAQEATRLAESHVESASNMEQLTRETEDYSKQALSLVRKA
mouse	700	DLKMTAERIRALGSQHQNRVQDTSRLISQMRLSLAGSEALLENTNIHSSEHYVGPNDFKSLAQEATRKADSHAESANAMKQLARETEDYSKQALSLARKL
horse	797	LQE—GGGSGSLDGAVVQRLVGKLQKTKSLAQELSREATQTDMEADRSYQHSLHLLNSVSQIQGVNDQSLQVEAKR-LRQKADSLSNRVTKHMDEFKHVQ
man	797	LHEGVGSGSGSPDGAVVQGLVEKLEKTKSLAQQLTREATQAEIEADRSYQHSLRLLDSVSRLQGVSDQSFQVEEAKRIKQKADSLSTLVTRHMDEFKRTQ
mouse	800	LSG—GGGSGSWDSSVVQGLMGKLEKTKSLSQQLSLEGTQADIEADRSYQHSLRLLDSASQLQGVSDLSFQVEAKR-IRQKADSLSNLVTRQTDAFTRVR
horse	894	SNLGNWEEETRQLLQNGKNGRQTSDQLLSRANLAKSRAQEALSMGNATFYEVENILKNLREFDLQVGDKRAEAEEEAMKRLSYISQKVAGASDKTKQAEAA
man	897	KNLGNWKEEAQQLLQNGKSGREKSDQLLSRANLAKSRAQEALSMGNATFYEVESILKNLREFDLQVDNRKAEAEEAMKRLSYISQKVSDASDKTQQAERA
mouse	897	NNLGNWEKETRQLLQTGKDRRQTSDQLLSRANLAKNRAQEALSMGNATFYEVENILKNLREFDLQVEDRKAEAEEAMKRLSSISQKVADASDKTQQAETA
horse	994	LGSAAADAQRAKNAAREALEISGKIEQEIGGLNLEANVTADGALAMEKGLATLKSEMREVEGELSRKEQEFDMDMDAVQMVIAEAQRVENRAKNAGVTIQ
man	997	LGSAAADAQRAKNGAGEALEISSEIEQEIGSLNLEANVTADGALAMEKGLASLKSEMREVEGELERKELEFDTNMDAVQMVITEAQKVDTRAKNAGVTIQ
mouse	997	LGSATADTQRAKNAAREALEISSEIELEIGSLNLEANVTADGALAMEKGTATLKSEMREMI-ELARKELEFDTDKDTVQLVITEAQQADARATSAGVTIQ
horse	1094	DTLNTLDGILHLIDQPGSVDEERLILLEQKLFRAKTQINSQLRPLMSELEERAHRQKGHLRFLETSIDGILADVKNLENIRDNLPPGCYNTQALEQQ
man	1097	DTLNTLDGLLHLMDQPLSVDEEGLVLLEQKLSRAKTQINSQLRPMMSELEERARQQRGHLHLLETSIDGILADVKNLENIRDNLPPGCYNTQALEQQ
mouse	1096	DTLNTLDGILHLIDQPGSVDEEGMMLLEQGLFQAKTQINSRLRPLMSDLEERVRRQRNHLHLLETSIDGILADVKNLENIRDNLPPGCYNTQALEQQ